INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2003/002072

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04B 7/06, H04B 7/08
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04B, H01Q, H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5515378 A (ROY, III ET AL), 7 May 1996 (07.05.1996), column 5, line 65 - column 10, line 21, figure 9	1-25
		
A	US 5886988 A (YUN ET AL), 23 March 1999 (23.03.1999), column 4, line 56 - column 7, line 17	1-25
A	WO 03041283 A2 (EFFICIENT SPECTRUM, INC.), 15 May 2003 (15.05.2003), the claims	1-25
		

*	Special categories of cited documents:	″T"	later document published after the international filing date or priority		
"A"	document defining the general state of the art which is not considered to be of particular relevance	•	date and not in conflict with the application but cited to understa the principle or theory underlying the invention		
"E"	carlier application or patent but published on or after the international filing date	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive		
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		step when the document is taken alone		
″O″	special reason (as specified) document referring to an oral disclosure, use, exhibition or other	"Y"	document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is		
-	means		combined with one or more other such documents, such combination being obvious to a person skilled in the art		
"P"	document published prior to the international filing date but later than the priority date claimed		document member of the same patent family		
Date	Date of the actual completion of the international search 4 August 2004		Date of mailing of the international search report 1 0 -08- 2004		
4 .					
Nam	Name and mailing address of the ISA/		Authorized officer		
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International application No.
PCT/SE 2003/002072

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A	EP 1063790 A1 (ALCATEL), 27 December 2000 (27.12.2000), abstract	1-25
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